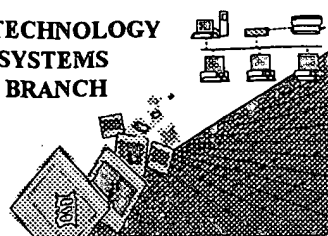


1641

BIOTECHNOLOGY
SYSTEMS
BRANCH

RECEIVED

FEB 13 2002

TECH CENTER 1600/290

1129

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/584,411A
Source: 1600
Date Processed by STIC: 2/4/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

RECEIVED
FEB 13 2002
TECH. CENTER 1600/2900

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/584,411A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) 2. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/584,411A

DATE: 02/04/2002

TIME: 12:47:29

Input Set : A:\Cura-52.txt

Output Set: N:\CRF3\02042002\I584411A.raw

**Does Not Comply
Corrected Diskette Needed**

5 <110> APPLICANT: Shimkets et al
 9 <120> TITLE OF INVENTION: Novel polynucleotides and polypeptides encoded thereby
 13 <130> FILE REFERENCE: 15966-552
 17 <140> CURRENT APPLICATION NUMBER: 09/584,411A
 19 <141> CURRENT FILING DATE: 2000-05-31
 23 <150> PRIOR APPLICATION NUMBER: USSN 60/137,322
 25 <151> PRIOR FILING DATE: 1999-06-03
 28 <150> PRIOR APPLICATION NUMBER: USSN 60/189,810
 30 <151> PRIOR FILING DATE: 2000-03-16
 33 <150> PRIOR APPLICATION NUMBER: USSN 60/191,158
 35 <151> PRIOR FILING DATE: 2000-03-22
 38 <150> PRIOR APPLICATION NUMBER: USSN 60/193,086
 40 <151> PRIOR FILING DATE: 2000-03-30
 43 <150> PRIOR APPLICATION NUMBER: USSN 60/201,388
 45 <151> PRIOR FILING DATE: 2000-05-03
 49 <160> NUMBER OF SEQ ID NOS: 93
 53 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

10820 <210> SEQ ID NO: 93
 10822 <211> LENGTH: 42
 10824 <212> TYPE: DNA
 10826 <213> ORGANISM: Artificial Sequence
 10830 <220> FEATURE:
 10832 <223> OTHER INFORMATION: Description of Artificial Sequence: chemically
 10834 synthesized
 10838 <400> SEQUENCE: 93
 10840 cgtcggatcc atgccacatc tgtatataga tggggttttt cc 42

E--> 10853 1

E--> 10856 1

delete

PVI

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

see next page

09/584,411A 2

<210> 2

<211> 169

<212> PRT

<213> Artificial Sequence

see item 6 on Ena Summary Sheet

<400> 2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/584,411A

DATE: 02/04/2002

TIME: 12:47:31

Input Set : A:\Cura-52.txt

Output Set : N:\CRF3\02042002\I584411A.raw

L:209 M:258 W: Mandatory Feature missing, <220> FEATURE:
 L:209 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
 L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
 L:1255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:1311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:1339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:1343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
 L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:1480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
 L:1794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
 L:2454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
 L:2458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
 L:2462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
 L:4018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
 L:6062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
 L:6064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
 L:6146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
 L:9276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
 L:10853 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:42 SEQ:93
 M:254 Repeated in SeqNo=93